Tuesday Oct 8, 2024

Name:

Discuss and complete the following questions with the person nearest you. You **may** be asked to share your thoughts with the class.

1. What is the output of each of the following code chunks?

```python
def funcA() -> None:
    total = 1
    while total < 16:
        total = total * 2
        print(total)
funcA()
```

```python
def funcB() -> None:
    a = 6
    b = 5
    while a >= 0 and b > 0:
        print(a, b)
        a = a-2
        b = b-1
funcB()
```

2. Write a function called `get_donations` that takes a fundraising goal (in dollars) and repeatedly asks the user for donation amounts until the fundraising goal has been met. The function should return the total number of donations entered.

3. Make versions of these functions which utilize while loops instead of for loops.

```python
def odd(alist: list) -> list:
    odds = []
    for num in alist:
        if num%2 == 1:
            odds.append(num)
    return odds
odd([1, 2])
```

```python
def vowels(phrase: str) -> int:
    count = 0
    for char in phrase:
        if char in 'aeiou':
            count += 1
        if char == 'x':
            break
    return count
vowels('aexo')
```